

TOMOSYNTHESIS X-RAY MAMMOGRAM SYSTEM AND METHOD WITH AUTOMATIC DRIVE SYSTEM

Abstract of the Disclosure

An imaging system includes an X-ray source adapted to move in an arc shaped path and a stationary electronic X-ray detector. The system also includes a track and a mechanical driving mechanism which is adapted to move the X-ray source in the arc shaped path. A tomosynthesis X-ray imaging method includes mechanically moving an X-ray source in a stepped motion on an arc shaped path around an object using a track and irradiating the object with an X-ray dose from the X-ray source located at a plurality of steps along the arc shaped path. The method also includes detecting the X-rays transmitted through the object with an electronic X-ray detector, and constructing a three dimensional image of the object from a signal output by the electronic X-ray detector.

Figures

Figure 1: A line graph showing the relationship between the number of hours spent studying and the score on a test. The x-axis represents the number of hours (0 to 10), and the y-axis represents the score (0 to 100). The data points are as follows:

Hours	Score
0	50
1	55
2	60
3	65
4	70
5	75
6	80
7	85
8	90
9	95
10	100